Applicants: Rolando Pajon Feyt, et al.

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Amendment to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application:

- 1-31. (canceled)
- A method of preventing an infection caused by bacteria from a Neisseria genus in a human in need thereof, comprising administering to the human an effective amount of a recombinant protein comprising an amino acid sequence set forth in SEO ID NO.: 4.
- 33. The method according to claim 32, wherein the bacteria is Neisseria meningitidis.
- 34. The method according to claim 32, wherein the bacteria is Neisseria gonorrhoeae.
- 35. A method of preventing an infection caused by bacteria from a Neisseria genus in a human in need thereof, comprising administering to the human an effective amount of a pharmaceutical composition comprising a recombinant protein, wherein the protein comprises an amino acid sequence set forth in SEQ ID NO: 4 and a pharmaceutically acceptable carrier.
- The method according to claim 35, wherein the pharmaceutical composition further comprises a polysaccharide antigen.
- The method according to claim 36, wherein the polysaccharide antigen is a capsular polysaccharide of Neisseria meningitidis.
- The method according to claim 35, wherein the pharmaceutical composition further comprises a bacterial polysaccharide-protein conjugate, wherein said protein comprises an amino acid sequence set forth in SEO ID NO: 4.
- The method according to claim 35, wherein the pharmaceutical composition further comprises an inactivated microorganism.
- The method according to claim 35, wherein the pharmaceutical composition further comprises a peptide antigen.
- The method according to claim 35, wherein the pharmaceutical composition further comprises a hormone.

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- The method according to claim 35, wherein the pharmaceutical composition further comprises a growth factor.
- The method according to claim 35, wherein the pharmaceutical composition is administered parenterally.
- The method according to claim 35, wherein the pharmaceutical composition is administered mucosally.
- The method according to claim 35, wherein the pharmaceutical composition is administered orally.
- 46. A method of treating an infection caused by bacteria from a Neisseria genus in a human in need thereof, comprising administering to the human an effective amount of a recombinant protein comprising an amino acid sequence set forth in SEQ ID NO: 4.